

1           1.    A method comprising:  
2                fabricating a printed-circuit board substrate;  
3    and  
4                fabricating a transmission line, utilizing  
5    deposited ferromagnetic material, coupled to the printed-  
6    circuit board substrate.

1           2.    The method of claim 1 further comprising  
2    fabricating the transmission line utilizing, in part,  
3    nickel.

1           3.    The method of claim 1 further comprising  
2    fabricating the transmission line utilizing, in part, a  
3    nickel alloy.

1           4.    The method of claim 1 further comprising  
2    fabricating the transmission line to include a via  
3    constructed, at least in part, utilizing a ferromagnetic  
4    material.

1           5.    The method of claim 4 further comprising  
2    fabricating the via with a ferromagnetic ring.

1           6.    The method of claim 5 further comprising  
2    fabricating the via with a plurality of ferromagnetic  
3    rings.

1           7.    The method of claim 1 further comprising  
2    fabricating the transmission line to include a signal trace  
3    covered, at least in part, by a ferromagnetic material.

1           8.    The method of claim 7 further comprising covering  
2    at least part of the signal trace on a plurality of sides  
3    with a ferromagnetic material.

1           9.    The method of claim 7 further comprising  
2    surrounding at least part of the signal trace with a  
3    ferromagnetic material.

10.   The method of claim 1 further comprising  
fabricating the transmission line to include a  
ferromagnetic island magnetically coupled to the  
transmission line.

1           11.   The method of claim 10 further comprising  
2    fabricating the transmission line to include a plurality of  
3    ferromagnetic islands magnetically coupled to the  
4    transmission line.

1           12.   The method of claim 1 further comprising  
2    fabricating the transmission line to include a signal trace

3 constructed, at least in part, utilizing a ferromagnetic  
4 material.

1 13. The method of claim 12 further comprising  
2 fabricating the transmission line to include a plurality of  
3 ferromagnetic islands magnetically coupled to the  
4 transmission line.

1 14. The method of claim 1 further comprising  
2 fabricating the transmission line to have a predetermined  
3 characteristic impedance utilizing, in part, ferromagnetic  
4 material.

1 15. An apparatus comprising:  
2 a printed-circuit board substrate having a signal  
3 trace; and  
4 a transmission line constructed, in part, of  
5 deposited ferromagnetic material coupled to the signal  
6 trace.

1 16. The apparatus of claim 15 wherein the  
2 ferromagnetic material is nickel.

1 17. The apparatus of claim 15 wherein the  
2 ferromagnetic material is a nickel alloy.

1        18. The apparatus of claim 15 wherein the  
2 transmission line includes a via constructed, at least in  
3 part, of a ferromagnetic material.

1        19. The apparatus of claim 18 wherein the via  
2 includes a ferromagnetic ring.

1        20. The apparatus of claim 15 wherein the  
2 transmission line includes a signal trace covered, at least  
3 in part, by a ferromagnetic material.

1        21. The apparatus of claim 20 wherein at least part  
2 of the signal trace is surrounded by a ferromagnetic  
3 material.

1        22. The apparatus of claim 15 wherein a ferromagnetic  
2 island is magnetically coupled to the transmission line.

1        23. The apparatus of claim 15 wherein the  
2 transmission line includes a signal trace constructed at  
3 least in part utilizing a ferromagnetic material.

1        24. A system comprising:  
2            A printed-circuit board substrate;

3           a transmission line constructed, in part, of  
4 deposited ferromagnetic material and coupled to the  
5 printed-circuit board substrate; and  
6           an electrical device coupled to the printed-  
7 circuit board substrate and coupled to the transmission  
8 line.

1           25. The system of claim 24 wherein the electrical  
2 device is a storage sub-system.

1           26. The system of claim 24 wherein the ferromagnetic  
2 material is nickel.

1           27. The system of claim 24 wherein the ferromagnetic  
2 material is a nickel alloy.

1           28. The system of claim 24 wherein the transmission  
2 line includes a via constructed, at least in part,  
3 utilizing a ferromagnetic material.

1           29. The system of claim 24 wherein the transmission  
2 line includes a signal trace covered, at least in part, by  
3 a ferromagnetic material.

1        30. The system of claim 24 wherein the transmission  
2 line includes a signal trace constructed, at least in part,  
3 of a ferromagnetic material.

1        31. The system of claim 24 wherein a ferromagnetic  
2 island is coupled to the transmission line.

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